

Amendments to the Claims

Claim 1. (CURRENTLY AMENDED) A multi-angular load-conveying interface connector for furnishing a connection between a horizontal, structural building-frame beam and an elongate, upright column having plural angularity angularly intersecting generally planar faces, with the planes of each of two adjacent faces intersecting at a column corner characterized by a known angle, said connector structure comprising

an elongate body having a long axis, and adapted to be joined to the outside of such a column with the body's said long axis substantially paralleling the column's long axis, said body, when viewed along its long axis, having a generally W-shaped cross-section, including (a) an angular central portion defined by two generally planar expanses that intersect at an angle which is substantially the same as the mentioned known angle between adjacent faces in the column, thus to form a trough adapted to fit and be joined complementarily as a corner-wrap around a column corner on the outside of the column, and in contact with a pair of next-adjacent column faces, and (b) a pair of spaced, generally planar tabs, each having the characteristics of an elastically deflectable cantilever element, and each joined to, and intersecting at an angle with respect to, a different one of said expanses, adapted, with the body fitted on and around a corner in the column, to extend generally normally outwardly from the respective associated faces in the column.

Claim 2. (CURRENTLY AMENDED) A structural/column/beam interconnect arrangement comprising

an elongate column having a long central axis, and plural, generally planar, outside faces, the planes of each two adjacent ones of which intersect one another to form a column corner which is characterized by a known angle,

plural angle-section connectors each having an elongate body with a generally W-shaped cross-section as viewed along the long axis of a said body, with said cross-section being defined by a pair of central generally planar expanses which intersect along the length of the body to form an angular trough which is substantially defined by substantially same angle as said known angle, and for each said expanse, a joined substantially planar tab which extends away from said trough at substantially a right angle relative to the tab's directly associated expanse,

said connectors being joined to the outside of said column at a common longitudinal location therealong, and in a manner wherein each connector is trough-seated against the column, with the connector's trough complementarily wrapping around ~~a column corner one of the column's corners~~, and with at least a pair of said connectors disposed adjacent one another in a manner wherein ~~a tab one of said tabs~~ in each confrontingly faces, is spaced from, and substantially nominally parallels ~~a tab one of said tabs~~ in the other, outwardly of a common face in the column, with the nominal space between said confronting, spaced tabs having a first known dimension, each of said confronting tabs having characteristics of an elastically deflectable cantilever element which can be resistedly deflected toward the other confronting tab effectively to diminish the effective spacing between the tabs,

an elongate beam having a generally planar central web with a thickness possessing a second known dimension which is less than said first known dimension, and with one end of said

central web received between said confronting tabs, and

fastener structure securing said central web's end to and between said confronting tabs, and in a manner drawing said tabs elastically and resistedly toward one another to close tightly against opposite sides of said central web's end, thus to introduce a preload compression directed inwardly through said common column face generally toward the column's long central axis.

Claim 3. (CURRENTLY AMENDED) The interconnect arrangement of claim 2, wherein, with respect to the placement of a beam said beam's central web for connection to and between a pair of next-adjacent columns, the arrangement is configured to allow for the vertical shifting of the beam into proper place for connection of its central web to and between pairs of spaced tabs, without any need for any lateral shifting of the columns said column to allow for insertion of the beam between the columns.